

CLAIMS

I claim:

1. Structure for the front of a vehicle, of the type with deformation control for the safeguard of pedestrians, cooperating with sensor means in order to detect the approaching or actual impact, and including at least one air bag placed below the bonnet component, and a "soft nose" shape of the front part of the vehicle, characterized in that it is composed of at least one interchangeable pre-assembled frontal module made of a thermoplastic material that includes the motor bonnet covering, the bumper covering and the covering of the mudguards, respectively left and right side, said pre-assembled module resulting hinged in correspondence to the front side of the vehicle

2. Structure for the front of a vehicle, according to claim 1, characterized in that the pre-assembled frontal module is, at least on one side, deformable or capable of being raised by air bags placed under said module interacting with said sensor means, maintaining the rear and frontal portion coupled.

3. Structure for the front of a vehicle, according to claims 1 and 2, characterized in that the first set of air bags of the front lateral type are placed along the front end of the vehicle, while the second set of air bags of the vertical lateral type are placed to the sides of said structure for the front of said vehicle.

4. Structure for the front of a vehicle, according to the previous claims, characterized in that in the rear part of the pre-assembled module and in proximity of the border, an interacting lock with a belt connected to a pre-tensioner, is foreseen.

5. Structure for the front of a vehicle, according to the previous claims, characterized in that the body includes a crossbeam in a retracted position with respect to the bumper covering and bears, in correspondence to the front side, a dissipater or absorber of energy which is to be partially covered by the shape of the bumper covering of the pre-assembled module.

6. Structure for the front of a vehicle, according to the previous claims, characterized in that a strut of the funnel-shaped type cooperates with the crossbeam.

7. Structure for the front of a vehicle, according to the previous claims, characterized in that the pre-assembled module includes the bumper covering, shaped with rounded lines, that extends transversely along the front side of the vehicle, comprising:

centrally, the area of the radiator grid with the area for the headlights on each side;

an upper part turned up towards the rear part of the vehicle, that extends in correspondence with the engine bay, so far as to join up with the front border of the motor bonnet covering.

****for U. S. filing****

8. Structure for the front of a vehicle, according to the previous claims, characterized in that the motor bonnet covering extends lengthways, from the connection with the bumper covering almost up to the base of the windscreen of the vehicle, ending with the rear border.

9. Structure for the front of a vehicle, according to the previous claims, characterized in that the left mudguard and that right mudguard include the relative wheel arch, and an upper part that, each turned up above the corresponding wheel arch, joins to the corresponding lateral end of the motor bonnet covering.